



# KUMOSCALE™

## **Toshiba Memory Releases TCP Transport Support for KumoScale™ Shared Accelerated Storage Software**

*NVMe™/TCP Support Now Available in Version 3.9 of KumoScale Software*

**Düsseldorf, Germany, 13<sup>th</sup> March 2019** – Toshiba Memory Europe GmbH today announces that its KumoScale™ shared accelerated storage software now supports TCP (Transmission Control Protocol) transport in its 3.9 production release. By leveraging TCP, the most widely-used and trusted networking protocol in today's enterprise and cloud data centers, KumoScale software enables NVMe Express™ over Fabrics (NVMe-oF™) to be deployed over existing Ethernet networks, opening opportunities for broader NVMe-oF deployment and adoption. In addition to TCP networks, KumoScale supports RDMA over Converged Ethernet (RoCE) version 2 networks.

KumoScale shared accelerated storage software makes flash storage accessible over a data center network. It addresses the inefficiencies associated with direct-attached storage (DAS) architectures by disaggregating the high-performance NVMe SSDs from compute nodes and making them shared and available across a network infrastructure as network-attached resources. Pooling these resources provides the ability to provision the right amount of storage or compute for each application workload, on each server within the data center, all while preserving the high-performance and low-latency benefits of NVMe™ SSDs. By delivering disaggregated, highly-flexible networked block storage to compute nodes, KumoScale allows data centers to run more efficiently.

At Flash Memory Summit 2018, Toshiba Memory's KumoScale storage software and Marvell® FastLinQ® 100GbE network interface card (NIC) received a 'Best of Show' award as the 'Most Innovative Memory Technology in Storage Networking' for their joint demonstration of NVMe-oF TCP. The solution leverages existing Ethernet networks for investment protection and enables disaggregated and virtualized storage for any NVMe SSD.

Toshiba Memory is a leading provider of NVMe SSDs, technology and software. For more information, please visit <https://kumoscale.toshiba-memory.com/>

**Notes:**

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**About Toshiba Memory Europe GmbH**

We, Toshiba Memory Europe GmbH, are the European business of Toshiba Memory Corporation. Our company offers a broad product line of flash memory products, including SD Cards, USB flash drives, and embedded memory components, in addition to solid state drives (SSD). Our company maintains offices in Germany, France, Spain, Sweden and the United Kingdom. President is Masaru Takeuchi.

For more information on the full range of our memory and SSD products please visit:

<https://business.toshiba-memory.com/en-emea/top.html>

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